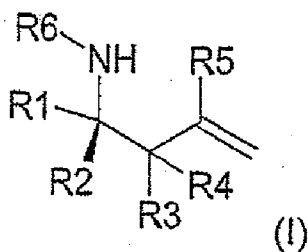


**AMENDMENT TO THE CLAIMS:**

The following claim set replaces all prior versions, and listings, of claims in the application:

1. (currently amended) An improved method for preparing chiral or enantiomer-enriched beta-amino acids, aldehydes, ketones or gamma-amino alcohols, wherein ~~characterized in that~~ an allylamine of the formula



in which R1 is an alkyl radical, a cycloalkyl radical, an aryl radical, a heterocyclic radical or a fused or bridged ring system,

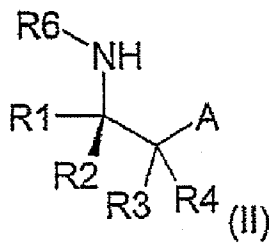
R2, R3, R4 and R5 may independently of one another be H or an alkyl radical, a cycloalkyl radical, an aryl radical, a heterocyclic radical or a fused or bridged ring system,

or the radicals R1, R2, R3 and R4 may form ring systems among themselves, which may optionally comprise one or more heteroatoms,

where the radicals R1, R2, R3, R4 and R5 may optionally be substituted one or more times by alkyl, phenyl, halogen, alkyl carboxylate, O-protected hydroxy and hydroxyalkyl groups, and R6 is H or an N-protective group, is converted

a) by ozonolysis in a solvent selected from the group of C<sub>1</sub>-C<sub>6</sub>-carboxylic acid, water/sulfuric acid mixture, C<sub>1</sub>-C<sub>4</sub>-alcohol, ethyl acetate or butyl acetate or mixtures thereof and at a temperature from -40°C to +30°C depending on the solvent, and

b) subsequent decomposition of the peroxide-containing solution using an oxidizing agent or reductive work-up  
 into the corresponding amino compound of the formula



in which R1, R2, R3, R4 and R6 are as defined above,  
 and A is a radical of the formula -COOH, -C(OH)R5 or -C(O)R5, where R5 is as defined above, depending on the work-up.

2. (currently amended) The method as claimed in claim 1, ~~wherein characterized in that~~ R1 in the formula (I) is a C<sub>1</sub>-C<sub>20</sub>-alkyl radical, a C<sub>3</sub>-C<sub>12</sub>-cycloalkyl radical, a C<sub>5</sub>-C<sub>20</sub>-aryl radical, a C<sub>4</sub>-C<sub>20</sub>-heterocyclic radical or a fused or bridged ring system having 6 to 20 C atoms,

R2, R3, R4 and R5 may independently of one another be H or a C<sub>1</sub>-C<sub>20</sub>-alkyl radical, a C<sub>3</sub>-C<sub>12</sub>-cycloalkyl radical, a C<sub>5</sub>-C<sub>20</sub>-aryl radical, a C<sub>4</sub>-C<sub>20</sub>-heterocyclic radical or a fused or bridged ring system having 6 to 20 C atoms,

or the radicals R1, R2, R3 and R4 may form C<sub>3</sub>-C<sub>10</sub> ring systems among one another, which may optionally comprise one or more heteroatoms, where the radicals R1, R2, R3, R4 and R5 may optionally be substituted one or more times by C<sub>1</sub>-C<sub>4</sub>-alkyl, phenyl, halogen, C<sub>1</sub>-C<sub>4</sub>-alkyl C<sub>1</sub>-C<sub>16</sub>-carboxylate, O-protected hydroxy and hydroxyalkyl groups, and R6 is H or an N-protective group.

3. (canceled)

4. (canceled)

5. (currently amended) The method as claimed in claim 1, comprising ~~conducting characterized in that~~ the ozonolysis for the allyl of the formula (I) in which R<sub>5</sub> is H, ~~is carried out~~ in a C<sub>1</sub>-C<sub>6</sub>-carboxylic acid or in a water/sulfuric acid mixture in the ratio from 10:1 to 50:1 as solvent at a temperature of from 0 to 30°C.

6. (currently amended) The method as claimed in claim 5, wherein ~~characterized in that~~ acetic acid or propionic acid is employed as solvent for the ozonolysis.

7. (currently amended) The method as claimed in claim 1, wherein ~~characterized in that~~ if gamma-amino alcohols of the formula (II) with A equal to C(OH)R<sub>5</sub> or beta-amino aldehydes or ketones of the formula (II) with A equal to C(O)R<sub>5</sub> are the desired final products, the ozonolysis takes place in a C<sub>1</sub>-C<sub>6</sub>-alcohol or in butyl acetate or ethyl acetate or in mixtures thereof as solvent at a temperature from -40°C to 0°C.

8. (currently amended) The method as claimed in claim 7, wherein ~~characterized in that~~ methanol or butanol is employed as solvent for the ozonolysis.

9. (currently amended) The method as claimed in claim 1, wherein ~~characterized in that~~ an oxidizing agent from the group of H<sub>2</sub>O<sub>2</sub>, tert-butyl hydroperoxide and oxygen is employed in an amount of from 1 to 10 equivalents for the decomposition of the peroxide-containing solution resulting from step a) by means of an oxidizing agent, and the solution is heated to 25°C to the boiling point of the solvent.

10. (currently amended) The method as claimed in claim 1, wherein ~~characterized in that~~ if beta-amino acids of the formula (II) with A equal to -COOH are the desired final product, the decomposition of the peroxide-containing solution resulting from step a) takes place by means of an oxidizing agent.

11. (currently amended) The method as claimed in claim 1, wherein ~~characterized in that~~ if beta-amino acids of the formula (II) with A equal to -COOH are

the desired final product, the ozonolysis is carried out in a C<sub>1</sub>-C<sub>6</sub>-carboxylic acid or in a water/sulfuric acid mixture in the ratio from 10:1 to 50:1 as solvent at a temperature of from 0 to 30°C, and the work-up of the ozonolysis solution includes an oxidizing agent from the group of H<sub>2</sub>O<sub>2</sub>, tert-butyl hydroperoxide and oxygen which is employed in an amount of from 1 to 10 equivalents for the decomposition of the peroxide-containing solution resulting from step a), and the solution is heated to 25°C to the boiling point of the solvent.

12. (currently amended) The method as claimed in claim 10, wherein  
~~characterized in that~~ after the peroxide decomposition is complete, the solvent/water mixture is distilled off and the beta-amino acid is purified where appropriate by recrystallization or column chromatography.

13. (currently amended) The method as claimed in claim 1, wherein  
~~characterized in that~~ in the case where amino alcohols of the formula (II) with A equal to C(OH)R<sub>5</sub> are the desired final compounds, a reducing agent from the group of NaBH<sub>4</sub> or of the complex hydrides is employed for the reductive work-up in step b).

14. (currently amended) The method as claimed in claim 13, wherein  
~~characterized in that~~ NaBH<sub>4</sub>, (R)-Alpine borane®, L-Selectride® or other complex hydrides with or without chiral ligands are employed as reducing agent.

15. (currently amended) The method as claimed in claim 13, wherein  
~~characterized in that~~ from 0.5 to 4 mol of reducing agent are employed per mol of allyl compound of the formula (I).

16. (currently amended) The method as claimed in claim 13, wherein  
~~characterized in that~~ after the reductive work-up is complete, the reaction solution is warmed to 10 to 40°C, and 1 to 2 equivalents of water based on the reducing agent, are added in order to decompose excess reducing agent.

17. (currently amended) The method as claimed in claim 13, wherein  
~~characterized in that~~ the gamma-amino alcohol is isolated by extraction, with the beta-  
amino alcohol also being purified where appropriate by recrystallization or column  
chromatography.

18. (currently amended) The method as claimed in claim 1, wherein  
~~characterized in that~~ if beta-amino aldehydes or ketones of the formula (II) with A equal  
to C(O)R<sub>5</sub> are the desired final products, the reductive work-up in step b) takes place  
with hydrogen in the presence of a hydrogenation catalyst or by reduction with  
triphenylphosphine, or tributylphosphine, thiourea, organic sulfides or by zinc in acetic  
acid.

19. (currently amended) An intermediate for pharmaceutical products which  
comprises ~~The use of the~~ beta-amino ~~acides~~ acids, aldehydes, ketones or gamma-  
amino alcohols prepared as claimed in claim 1 ~~as intermediates for pharmaceutical~~  
~~products.~~